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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,080	07/25/2003	Joachim Wolf	331.1048	3127

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EXAMINER

PICKARD, ALISON K

ART UNIT PAPER NUMBER

3673

DATE MAILED: 02/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/627,080

**Applicant(s)**

WOLF ET AL.

**Examiner**

Alison K. Pickard

**Art Unit**

3673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-3,6 and 8-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3,6,8-13 and 15-20 is/are rejected.
- 7) ☒ Claim(s) 14 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 7-25-03 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-3, 6, 8-12, and 20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification does not appear to provide support for an axle boot having compensating pieces joined to one another by ring sections to form a single piece component AND a clamp, and further where the clamp is then integrated with the one-piece component to form a multi-component unit. It appears that there are two embodiments set forth. One relates to the pieces joined by ring sections and one relates to the pieces being joined to a clamp.

### ***Drawings***

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, an axle boot having the single piece component formed by the pieces and ring sections AND another clamp must be shown or the feature(s) canceled from the claim(s). \*\*This should only be provided if it's determined that such an embodiment is not new matter. No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 13 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese patent 56-62464 (JP ‘464).

JP ‘464 discloses a boot comprising a joint housing including an external contour with radial recesses. A bellows has a color with plural indentations (e.g. 26) adapted to the recesses.

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A clamp 11 or 27 with integrated connecting pieces 28 or 14 is disposed around the collar to form a cylindrical outer surface.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-3 and 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baker in view of Devers.

Baker discloses an axle boot comprising a joint housing 16 having plural radial recesses 16b and a bellows 12. The bellows is made of TPE and has an integral connecting collar 15 including a plurality of indentations projecting radially inward and adapted to recesses 16b (see Fig. 2 and col. 3, lines 62-65). A plurality of compensating pieces 22 is attached to an outer surface of the collar to form a cylindrical outer circumference for a clamp 23. The pieces are all connected and include ring sections (near 22) to connect adjacent pieces. The projecting portion of the pieces has a length corresponding to the recess.

Baker does not disclose ring sections wherein at least one ring section is elastically deformable, that the pieces are made of more than one material, or that the pieces have a web. Devers teaches an axle boot having a joint housing and bellows. Devers teaches a plurality of compensating pieces with the bellows. The pieces are connected as a single piece component having ring sections (near 32), wherein at least one is elastically deformable (see col. 4, line 12), which allows the component to be installed. Devers also teaches the compensating pieces include

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more than one material (i.e. insert 44 is a harder material than the rest of element 40). The pieces are a hollow (air-filled) body having flexible walls/ webs (e.g. Fig. 7). Devers teaches that this compensating component provides a more uniform stiffness and compression, thus providing a more uniform sealing and clamping force. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the compensating component of Baker with the unified component taught by Devers to provide a more uniform sealing and clamping force.

8. Claims 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '464 in view of Devers.

Devers teaches an axle boot having a joint housing and bellows. Devers teaches a plurality of compensating pieces with the bellows. Devers also teaches the compensating pieces include more than one material (i.e. insert 44 is a harder material than the rest of element 40). The pieces are a hollow (air-filled) body having flexible walls/ webs (e.g. Fig. 7). Devers teaches that this compensating component provides a more uniform stiffness and compression, thus providing a more uniform sealing and clamping force. Therefore, it would have been obvious for one of ordinary skill in the art at the time the invention was made to modify the compensating pieces of JP '464 with the pieces taught by Devers to provide a more uniform sealing and clamping force.

***Allowable Subject Matter***

9. Claim 14 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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10. Claim 6 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

*Response to Arguments*

11. Applicant's arguments filed 11-14-05 have been fully considered but they are not persuasive.

Baker discloses all of the components required by the claims, but fails to state the compensating pieces and rings sections are joined as a single piece component. It has been held that the use of one-piece construction is obvious. See *In re Larson* 144 USPQ 347, 348 (CCPA 1965). Further, one-piece construction for the compensating pieces of a boot assembly is known as evidenced by Devers and JP '464. Devers teaches an improved one-piece construction that provides a more uniform sealing/clamping force not only between the adaptor and boot (i.e. outer diameter of Devers), but between the adaptor and housing (inner diameter of Devers). Devers provides a uniform, rigid outer diameter so that a clamping/sealing force will be uniform at the inner diameter of the adaptor as well. Using the improved adaptor taught by Devers would improve the seal between the boot and housing of Baker (i.e. at the inner diameter of the adaptor). This is the motivation and teaching being applied. Further, given that Devers teaches the adaptor is elastically deformable for installation, it would be an obvious modification to allow installation over the boot of Baker.

As stated above, a unified clamp/compensating piece construction is known via Devers and JP '464. However, neither appears to teach some of the additional limitations of the construction disclosed by Applicant. JP '464 does not appear to show the rivets. And neither

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shows a meander shape that imparts the elasticity for installation, or the ring sections with the flexure joints shown in Figure 6 (though there is not a claim directed to this feature).

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alison K. Pickard whose telephone number is 571-272-7062. The examiner can normally be reached on M-F (10-7:30), with alternate Friday's off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tricia Engle can be reached on 571-272-6660. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Alison K. Pickard  
Primary Examiner  
Art Unit 3673

AP